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TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-2016-10-12-01** **Date: 14-10-16**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division , BBMP , Bangalore.
Address	:	Byatarayanapura Sub Division , BBMP , Bangalore.
Agency	:	M/s Sathya constructions, (Prop.Sathish) # 600, Down Bazzar road, Yelahanka, Bangalore-64.
Project Name	:	Improvements & Asphalting to Roads and Drains from Nagawara Junction to Thanisandra at Ward No.06, Byatarayanapura Sub Division
Customer Reference	:	BBMP/EE/BTP/WO/123/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-10-16
Sample ID No	:	2016-10-12-01/01
Type of Mix	:	GSB (Granular Sub Base)
Date of test	:	13-10-16
Oven Dry Weight(gm)	:	11500

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	710	710	6.17	93.8	80-100
26.5	2986	3696	32.14	67.9	55-90
9.5	3015	6711	58.36	41.6	35-65
4.75	1490	8201	71.31	28.7	25-55
2.36	410	8611	74.88	25.1	20-40
0.425	1277	9888	85.98	14.0	10-25
0.075	904	10792	93.84	6.2	3-10

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results
1	Liquid Limit, %	24.10%
2	Plasticity index, %	Non plastic

Note:-
The results pertain to the samples received and tested.
All information furnished by the Customer/ Representative
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As ward No6 ಸೂಕ್ತ ಕ್ರಮಕ್ಕಾಗಿ
ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Prepared By:
Harshitha

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-2016-10-10-01** **Date: 11-10-16**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division , BBMP , Bangalore.
Address	:	Byatarayanapura Sub Division , BBMP , Bangalore.
Agency	:	M/s Sathya constructions, (Prop.Sathish) # 600, Down Bazzar road, Yelahanka, Bangalore-64.
Project Name	:	Improvements & Asphalting to Roads and Drains from Nagawara Junction to Thanisandra at Ward No.06, Byatarayanapura Sub Division.
Customer Reference	:	BBMP/EE/BTP/WO/123/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-10-16
Sample ID No	:	2016-10-10-01/01
Type of Mix	:	GSB (Granular Sub Base)
Date of test	:	11-10-16
Oven Dry Weight(gm)	:	10000

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	810	810	8.10	91.9	80-100
26.5	1900	2710	27.10	72.9	55-90
9.5	3100	5810	58.10	41.9	35-65
4.75	1554	7364	73.64	26.4	25-55
2.36	511	7875	78.75	21.3	20-40
0.425	691	8566	85.66	14.3	10-25
0.075	705	9271	92.71	7.3	3-10

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results
1	Liquid Limit, %	22.12%
2	Plasticity index, %	Non plastic

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Prepared By:
Harshitha

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TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-2016-10-17-01** **Date: 18-10-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division , BBMP , Bangalore.
Address	:	Byatarayanapura Sub Division , BBMP , Bangalore.
Agency	:	M/s Sathya constructions, (Prop.Sathish) # 600, Down Bazzar road, Yelahanka, Bangalore-64.
Project Name	:	Improvements & Asphalting to Roads and Drains from Nagawara Junction to Thanisandra at Ward No.06, Byatarayanapura Sub Division.
Customer Reference	:	BBMP/EE/BTP/WO/123/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-10-16
Sample ID No	:	2016-10-17-01/01
Type of Mix	:	GSB (Granular Sub Base)
Date of test	:	17-10-16
Oven Dry Weight(gm)	:	11000

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	1020	1020	9.27	90.7	80-100
26.5	2500	3520	32.00	68.0	55-90
9.5	2988	6508	59.16	40.8	35-65
4.75	1490	7998	72.71	27.3	25-55
2.36	432	8430	76.64	23.4	20-40
0.425	1055	9485	86.23	13.8	10-25
0.075	1001	10486	95.33	4.7	3-10

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results
1	Liquid Limit, %	23.31%
2	Plasticity index, %	Non plastic

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Prepared By:
Harshitha

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-2016-10-19-01** **Date: 20-10-16**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division , BBMP , Bangalore.
Address	:	Byatarayanapura Sub Division , BBMP , Bangalore.
Agency	:	M/s Sathya constructions, (Prop.Sathish) # 600, Down Bazzar road, Yelahanka, Bangalore-64.
Project Name	:	Improvements & Asphalting to Roads and Drains from Nagawara Junction to Thanisandra at Ward No.06, Byatarayanapura Sub Division.
Customer Reference	:	BBMP/EE/BTP/WO/123/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-10-16
Sample ID No	:	2016-10-19-01/01
Type of Mix	:	GSB (Granular Sub Base)
Date of test	:	19-10-16
Oven Dry Weight(gm)	:	10500

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	871	871	8.30	91.7	80-100
26.5	1988	2859	27.23	72.8	55-90
9.5	3065	5924	56.42	43.6	35-65
4.75	1598	7522	71.64	28.4	25-55
2.36	510	8032	76.50	23.5	20-40
0.425	910	8942	85.16	14.8	10-25
0.075	980	9922	94.50	5.5	3-10

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results
1	Liquid Limit, %	22.99%
2	Plasticity index, %	Non plastic

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Harshitha

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TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-2016-10-25-01** **Date: 27-10-16**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division , BBMP , Bangalore.
Address	:	Byatarayanapura Sub Division , BBMP , Bangalore.
Agency	:	M/s Sathya constructions, (Prop.Sathish) # 600, Down Bazzar road, Yelahanka, Bangalore-64.
Project Name	:	Improvements & Asphalting to Roads and Drains from Nagawara Junction to Thanisandra at Ward No.06, Byatarayanapura Sub Division.
Customer Reference	:	BBMP/EE/BTP/WO/123/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-10-16
Sample ID No	:	2016-10-25-01/01
Type of Mix	:	GSB (Granular Sub Base)
Date of test	:	26-10-16
Oven Dry Weight(gm)	:	11000

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	905	905	8.23	91.8	80-100
26.5	2143	3048	27.71	72.3	55-90
9.5	3122	6170	56.09	43.9	35-65
4.75	1762	7932	72.11	27.9	25-55
2.36	705	8637	78.52	21.5	20-40
0.425	891	9528	86.62	13.4	10-25
0.075	705	10233	93.03	7.0	3-10

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results
1	Liquid Limit, %	23.59%
2	Plasticity index, %	Non plastic

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-2016-11-01-01** **Date: 03-11-16**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division , BBMP , Bangalore.
Address	:	Byatarayanapura Sub Division , BBMP , Bangalore.
Agency	:	M/s Sathya constructions, (Prop.Sathish) # 600, Down Bazzar road, Yelahanka, Bangalore-64.
Project Name	:	Improvements & Asphalting to Roads and Drains from Nagawara Junction to Thanisandra at Ward No.06, Byatarayanapura Sub Division.
Customer Reference	:	BBMP/EE/BTP/WO/123/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-11-16
Sample ID No	:	2016-11-01-01/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	02-11-16
Oven Dry Weight(gm)	:	10500

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.11 MORTH Specification
53	0	0	0	100	100
45	280	280	2.67	97.3	95-100
22.4	2900	3180	30.29	69.7	60-80
11.2	2011	5191	49.44	50.6	40-60
4.75	2061	7252	69.07	30.9	25-40
2.36	1296	8548	81.41	18.6	15-30
0.6	420	8968	85.41	14.6	8-22
0.075	861	9829	93.61	6.4	0-8

Note:-

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ನಿಕ್ಕ ಕಛೇರಿ A
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TEST REPORT OF AGGEGRATE IMPACT VALUE
(IS: 2386 Part IV)

Lab ID	:	**CP-2016-11-01-01** **Date: 03-11-16**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division , BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division , BBMP , Bangalore.
Agency	:	M/s Sathya constructions, (Prop.Sathish) # 600, Down Bazzar road, Yelahanka, Bangalore-64.
Project Name	:	Improvements & Asphalting to Roads and Drains from Nagawara Junction to Thanisandra at Ward No.06, Byatarayanapura Sub Division.
Customer Reference	:	BBMP/EE/BTP/WO/123/2016-17
Source of Sample	:	Sample supplied by the Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-11-16
Sample ID No	:	2016-11-01-01/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	02-11-16

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	304.3	303.9
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	67.3	66.9
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	236.2	236.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.8	0.2
5	Aggregate impact value	(B/A)*100	22.12	22.01
6	Aggregate impact value (Mean of two tests)	Pecentage	22.1	

Note:-

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-2016-11-01-01** **Date: 03-11-16**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division , BBMP , Bangalore.
Address	:	Byatarayanapura Sub Division , BBMP , Bangalore.
Agency	:	M/s Sathya constructions, (Prop.Sathish) # 600, Down Bazzar road, Yelahanka, Bangalore-64.
Project Name	:	Improvements & Asphalting to Roads and Drains from Nagawara Junction to Thanisandra at Ward No.06, Byatarayanapura Sub Division.
Customer Reference	:	BBMP/EE/BTP/WO/123/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-11-16
Sample ID No	:	2016-11-01-01/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	02-11-16

Result:

Flakiness Index	12.5%
Elongation Index	11.3%
Combined Flakiness & Elongation Index	23.8%

Comments:

Maximum allowable Flakiness & Elongation Index is 30 %

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-2016-11-04-01** **Date: 07-11-16**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division , BBMP , Bangalore.
Address	:	Byatarayanapura Sub Division , BBMP , Bangalore.
Agency	:	M/s Sathya constructions, (Prop.Sathish) # 600, Down Bazzar road, Yelahanka, Bangalore-64.
Project Name	:	Improvements & Asphalting to Roads and Drains from Nagawara Junction to Thanisandra at Ward No.06, Byatarayanapura Sub Division.
Customer Reference	:	BBMP/EE/BTP/WO/123/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-11-16
Sample ID No	:	2016-11-04-01/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	04-11-16
Oven Dry Weight(gm)	:	11000

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.11 MORTH Specification
53	0	0	0	100	100
45	320	320	2.91	97.1	95-100
22.4	2865	3185	28.95	71.0	60-80
11.2	2188	5373	48.85	51.2	40-60
4.75	2005	7378	67.07	32.9	25-40
2.36	1300	8678	78.89	21.1	15-30
0.6	510	9188	83.53	16.5	8-22
0.075	1231	10419	94.72	5.3	0-8

Note:-

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AE ward no 6
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ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-24

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Prepared By:
Harshitha

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF AGGEGRATE IMPACT VALUE
(IS: 2386 Part IV)

Lab ID	:	**CP-2016-11-04-01** **Date:**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division , BBMP , Bangalore.
Address	:	Byatarayanapura Sub Division , BBMP , Bangalore.
Agency	:	M/s Sathya constructions, (Prop.Sathish) # 600, Down Bazzar road, Yelahanka, Bangalore-64.
Project Name	:	Improvements & Asphalting to Roads and Drains from Nagawara Junction to Thanisandra at Ward No.06, Byatarayanapura Sub Division.
Customer Reference	:	BBMP/EE/BTP/WO/123/2016-17
Source of Sample	:	Sample supplied by the Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-11-16
Sample ID No	:	2016-11-04-01/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	04-11-16

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	302.4	302.1
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	65.9	65.1
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	236.1	236.1
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.9
5	Aggregate impact value	(B/A)*100	21.79	21.55
6	Aggregate impact value (Mean of two tests)	Pecentage	21.7	

Note:-

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Quality Manager

Prepared By:
Harshitha

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-2016-11-07-01** **Date: 09-11-16**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division , BBMP , Bangalore.
Address	:	Byatarayanapura Sub Division , BBMP , Bangalore.
Agency	:	M/s Sathya constructions, (Prop.Sathish) # 600, Down Bazzar road, Yelahanka, Bangalore-64.
Project Name	:	Improvements & Asphalting to Roads and Drains from Nagawara Junction to Thanisandra at Ward No.06, Byatarayanapura Sub Division.
Customer Reference	:	BBMP/EE/BTP/WO/123/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-11-16
Sample ID No	:	2016-11-07-01/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	07-11-16
Oven Dry Weight(gm)	:	11000

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.11 MORTH Specification
53	0	0	0	100	100
45	406	406	3.69	96.3	95-100
22.4	3065	3471	31.55	68.4	60-80
11.2	2845	6316	57.42	42.6	40-60
4.75	1568	7884	71.67	28.3	25-40
2.36	1061	8945	81.32	18.7	15-30
0.6	691	9636	87.60	12.4	8-22
0.075	643	10279	93.45	6.6	0-8

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Authorized Signatory
Quality Manager

Prepared By:
Harshitha

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-2016-11-10-01** **Date: 14-11-16**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division , BBMP , Bangalore.
Address	:	Byatarayanapura Sub Division , BBMP , Bangalore.
Agency	:	M/s Sathya constructions, (Prop.Sathish) # 600, Down Bazzar road, Yelahanka, Bangalore-64.
Project Name	:	Improvements & Asphalting to Roads and Drains from Nagawara Junction to Thanisandra at Ward No.06, Byatarayanapura Sub Division.
Customer Reference	:	BBMP/EE/BTP/WO/123/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-11-16
Sample ID No	:	2016-11-10-01/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	10-11-16
Oven Dry Weight(gm)	:	10000

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.11 MORTH Specification
53	0	0	0	100	100
45	320	320	3.20	96.8	95-100
22.4	3165	3485	34.85	65.2	60-80
11.2	2165	5650	56.50	43.5	40-60
4.75	1572	7222	72.22	27.8	25-40
2.36	1106	8328	83.28	16.7	15-30
0.6	520	8848	88.48	11.5	8-22
0.075	492	9340	93.40	6.6	0-8

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Quality Manager

Prepared By:
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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-2016-11-16-01** **Date: 19-11-16**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division , BBMP , Bangalore.
Address	:	Byatarayanapura Sub Division , BBMP , Bangalore.
Agency	:	M/s Sathya constructions, (Prop.Sathish) # 600, Down Bazzar road, Yelahanka, Bangalore-64.
Project Name	:	Improvements & Asphalting to Roads and Drains from Nagawara Junction to Thanisandra at Ward No.06, Byatarayanapura Sub Division.
Customer Reference	:	BBMP/EE/BTP/WO/123/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-11-16
Sample ID No	:	2016-11-16-01/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	16-11-16
Oven Dry Weight(gm)	:	12000

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.11 MORTH Specification
53	0	0	0	100	100
45	489	489	4.08	95.9	95-100
22.4	3145	3634	30.28	69.7	60-80
11.2	2275	5909	49.24	50.8	40-60
4.75	1876	7785	64.88	35.1	25-40
2.36	987	8772	73.10	26.9	15-30
0.6	876	9648	80.40	19.6	8-22
0.075	1005	10653	88.78	11.2	0-8

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-2016-11-04-01**	**Date: 07-11-16**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division , BBMP , Bangalore.	
Address	:	Byatarayanapura Sub Division , BBMP , Bangalore.	
Agency	:	M/s Sathya constructions, (Prop.Sathish) # 600, Down Bazzar road, Yelahanka, Bangalore-64.	
Project Name	:	Improvements & Asphalting to Roads and Drains from Nagawara Junction to Thanisandra at Ward No.06, Byatarayanapura Sub Division.	
Customer Reference	:	BBMP/EE/BTP/WO/123/2016-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	04-11-16	
Sample ID No	:	2016-11-04-01/01	
Type of Mix	:	WMM (Wet Mix Macadam)	
Date of test	:	04-11-16	

Result:

Flakiness Index	11.8%
Elongation Index	12.8%
Combined Flakiness & Elongation Index	24.6%

Comments:

Maximum allowable Flakiness & Elongation Index is 30 %

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TEST REPORT OF AGGEGRATE IMPACT VALUE
(IS: 2386 Part IV)

Lab ID	:	**CP-2016-11-04-01**	**Date: 07-11-16**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division , BBMP , Bangalore.	
Address	:	Byatarayanapura Sub Division , BBMP , Bangalore.	
Agency	:	M/s Sathya constructions, (Prop.Sathish) # 600, Down Bazzar road, Yelahanka, Bangalore-64.	
Project Name	:	Improvements & Asphalting to Roads and Drains from Nagawara Junction to Thanisandra at Ward No.06, Byatarayanapura Sub Division.	
Customer Reference	:	BBMP/EE/BTP/WO/123/2016-17	
Source of Sample	:	Sample supplied by the Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	04-11-16	
Sample ID No	:	2016-11-04-01/01	
Type of Mix	:	WMM (Wet Mix Macadam)	
Date of test	:	04-11-16	

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	302.4	302.1
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	65.9	65.1
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	236.1	236.1
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.9
5	Aggregate impact value	(B/A)*100	21.79	21.55
6	Aggregate impact value (Mean of two tests)	Pecentage	21.7	

Note:-

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Prepared By:
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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	**CP-2017-03-13-01**	**Date: 14-03-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division , BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division , BBMP , Bangalore.	
Project Name	:	M/s Sathya constructions, (Prop.Sathish) # 600, Down Bazzar road, Yelahanka, Bangalore-64.	
Agency	:	Improvements & Asphalting to Roads and Drains from Nagawara Junction to Thanisandra at Ward No.06, Byatarayanapura Sub Division.	
Customer Reference	:	BBMP/EE/BTP/WO/123/2016-17	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	13-03-17	
Sample ID No	:	2017-03-13-01/01	
Type of Mix	:	BC (Bituminous Concrete)	
Date of test	:	13-03-17	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	502	500
2	Weight of the sample After extraction	B	472	470
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.98	6.00
4	Average percentage	%	6.0	

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Lab ID : **CP-2017-03-13-01** **Date: 14-03-17**

Sample ID : **2017-03-13-01/01**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 479

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	0	0	0.0	100.0	79-100
9.5	68	68	14.2	85.8	70-88
4.75	107	175	36.5	63.5	53-71
2.36	54	229	47.8	52.2	42-58
1.18	38	267	55.7	44.3	34-48
0.6	41	308	64.3	35.7	26-38
0.3	65	373	77.9	22.1	18-28
0.15	39	412	86.0	14.0	12-20
0.075	43	455	95.0	5.0	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 475

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	2	2	0.4	99.6	79-100
9.5	96	98	20.6	79.4	70-88
4.75	89	187	39.4	60.6	53-71
2.36	75	262	55.2	44.8	42-58
1.18	31	293	61.7	38.3	34-48
0.6	11	304	64.0	36.0	26-38
0.3	72	376	79.2	20.8	18-28
0.15	32	408	85.9	14.1	12-20
0.075	32	440	92.6	7.4	4-10

Note:-

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Harshitha

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	**CP-2017-03-16-01**	**Date: 17-03-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division , BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division , BBMP , Bangalore.	
Project Name	:	M/s Sathya constructions, (Prop.Sathish) # 600, Down Bazzar road, Yelahanka, Bangalore-64.	
Agency	:	Improvements & Asphalting to Roads and Drains from Nagawara Junction to Thanisandra at Ward No.06, Byatarayanapura Sub Division.	
Customer Reference	:	BBMP/EE/BTP/WO/123/2016-17	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	16-03-17	
Sample ID No	:	2017-03-16-01/01	
Type of Mix	:	BC (Bituminous Concrete)	
Date of test	:	16-03-17	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	505	503
2	Weight of the sample After extraction	B	475	473
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.94	5.96
4	Average percentage	%	6.0	

A E ward, No 6

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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Authorized Signatory
Quality Manager

Prepared By:
Harshitha

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Lab ID : **CP-2017-03-16-01** **Date: 17-03-17**

Sample ID : **2017-03-16-01/01**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 475

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	0	0	0.0	100.0	79-100
9.5	70	70	14.7	85.3	70-88
4.75	109	179	37.7	62.3	53-71
2.36	59	238	50.1	49.9	42-58
1.18	41	279	58.7	41.3	34-48
0.6	47	326	68.6	31.4	26-38
0.3	60	386	81.3	18.7	18-28
0.15	32	418	88.0	12.0	12-20
0.075	34	452	95.2	4.8	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 473

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	5	5	1.1	98.9	79-100
9.5	102	107	22.6	77.4	70-88
4.75	84	191	40.4	59.6	53-71
2.36	89	280	59.2	40.8	42-58
1.18	27	307	64.9	35.1	34-48
0.6	18	325	68.7	31.3	26-38
0.3	52	377	79.7	20.3	18-28
0.15	26	403	85.2	14.8	12-20
0.075	42	445	94.1	5.9	4-10

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Authorized Signatory
Quality Manager

Page 2/2

End of Report

TEST RESULTS OF GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-2017-02-25-01**	**Date: 26-02-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division , BBMP , Bangalore.	
Address	:	Byatarayanapura Sub Division , BBMP , Bangalore.	
Agency	:	M/s Sathya constructions, (Prop.Sathish) # 600, Down Bazzar road, Yelahanka, Bangalore-64.	
Project Name	:	Improvements & Asphalting to Roads and Drains from Nagawara Junction to Thanisandra at Ward No.06, Byatarayanapura Sub Division.	
Customer Reference	:	BBMP/EE/BTP/WO/123/2016-17	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	25-02-17	
Sample ID No	:	2017-02-25-01/01	
Type of Mix	:	DBM (Dense Bituminous Macadam)	
Date of test	:	25-02-17	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	503	502
2	Weight of the sample After extraction	B	480	479
3	Bitumen percentage	$\frac{A-B}{A}$ X 100	4.6	4.6
4	Average percentage	%	4.6	

AE Ward No 6
ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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Prepared By:
Harshitha

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Authorized Signatory
Quality Manager

Lab ID : CP-2017-02-25-01 **Date: 26-02-17**

Sample ID No : 2017-02-25-01/01

AFTER EXTRACTION(Trail-1)

Weight of Sample(gm) : 480

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-13(grading -2)
37.5	0	0	0	100.0	100
26.5	7	7	1.46	98.5	90-100
19	47	54	11.25	88.8	71-95
13.2	89	143	29.79	70.2	56-80
4.75	133	276	57.50	42.5	38-54
2.36	54	330	68.75	31.3	28-42
0.3	91	421	87.71	12.3	7-21
0.075	42	463	96.46	3.5	2-8

AFTER EXTRACTION(Trail-2)

Weight of Sample(gm) : 479

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-13(grading -2)
37.5	0	0	0	100.0	100
26.5	5	5	1.04	99.0	90-100
19	48	53	11.06	88.9	71-95
13.2	99	152	31.73	68.3	56-80
4.75	102	254	53.03	47.0	38-54
2.36	85	339	70.77	29.2	28-42
0.3	73	412	86.01	14.0	7-21
0.075	51	463	96.66	3.3	2-8

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Quality Manager

End of Report

TEST RESULTS OF GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-2017-02-28-01**	**Date: 01-03-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division , BBMP , Bangalore.	
Address	:	Byatarayanapura Sub Division , BBMP , Bangalore.	
Agency	:	M/s Sathya constructions, (Prop.Sathish) # 600, Down Bazzar road, Yelahanka, Bangalore-64.	
Project Name	:	Improvements & Asphalting to Roads and Drains from Nagawara Junction to Thanisandra at Ward No.06, Byatarayanapura Sub Division.	
Customer Reference	:	BBMP/EE/BTP/WO/123/2016-17	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	28-02-17	
Sample ID No	:	2017-02-28-01/01	
Type of Mix	:	DBM (Dense Bituminous Macadam)	
Date of test	:	28-02-17	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	502	502
2	Weight of the sample After extraction	B	479	478
3	Bitumen percentage	$\frac{A-B}{A}$ X 100	4.6	4.8
4	Average percentage	%	4.7	

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Prepared By:
Harshitha

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Quality Manager

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Lab ID : CP-2017-02-28-01 **Date: 01-03-17**

Sample ID No : 2017-02-28-01/01

AFTER EXTRACTION(Trail-1)

Weight of Sample(gm) : 479

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-13(grading -2)
37.5	0	0	0	100.0	100
26.5	6	6	1.25	98.7	90-100
19	46	52	10.86	89.1	71-95
13.2	90	142	29.65	70.4	56-80
4.75	135	277	57.83	42.2	38-54
2.36	55	332	69.31	30.7	28-42
0.3	92	424	88.52	11.5	7-21
0.075	45	469	97.91	2.1	2-8

AFTER EXTRACTION(Trail-2)

Weight of Sample(gm) : 479

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-13(grading -2)
37.5	0	0	0	100.0	100
26.5	3	3	0.63	99.4	90-100
19	55	58	12.11	87.9	71-95
13.2	101	159	33.19	66.8	56-80
4.75	100	259	54.07	45.9	38-54
2.36	81	340	70.98	29.0	28-42
0.3	75	415	86.64	13.4	7-21
0.075	46	461	96.24	3.8	2-8

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಮಲ್ಲೇಶ್ವರಂ ಉಪ ವಿಭಾಗ
ಬೆಂಗಳೂರು-24

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Harshitha

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2016-09-08-01** **Date: 7-10-2016**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division , BBMP , Bangalore.
Address	:	Byatarayanapura Sub Division , BBMP , Bangalore.
Agency	:	M/s Sathya constructions, (Prop.Sathish) # 600, Down Bazzar road, Yelahanka, Bangalore-64.
Project Name	:	Improvements & Asphalting to Roads and Drains from Nagawara Junction to Thanisandra at Ward No.06, Byatarayanapura Sub Division.
Customer's Reference	:	BBMP/EE/BTP/WO/123/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-09-16
Sample ID No	:	2016-09-08-01/01
Sample Type	:	Zuari 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of testing	:	08-09-2016 to 6-10-2016

Ward no 6
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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving	3.16	–
2	Finess by Air permeablity method	292.7	225m^2/kg, Min
3	Density	3.42	gm/cc
4	Specific Gravity	3.19	–
5	Standard Consistency	29.5%	Not specified
6	Initial Setting time	225 minutes	Not less than 30 minutes

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2016-09-08-01** **Date: 7-10-2016**

Sample ID No : 2016-09-08-01/01

7	Final Setting time	355 minutes	Not more than 600 minutes
8	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm
9	Compressive Strength		
	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
	28 Days	55.0N/mm^2	Not less than 53 N/mm^2

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Harshitha

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R. Karthik

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2016-09-08-01** **Date: 15-09-16**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division , BBMP , Bangalore.
Address	:	Byatarayanapura Sub Division , BBMP , Bangalore.
Agency	:	M/s Sathya constructions, (Prop.Sathish) # 600, Down Bazzar road, Yelahanka, Bangalore-64.
Project Name	:	Improvements & Asphalting to Roads and Drains from Nagawara Junction to Thanisandra at Ward No.06, Byatarayanapura Sub Division.
Customer Reference	:	BBMP/EE/BTP/WO/123/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-09-16
Sample ID No	:	2016-09-08-01/02(a)
Sample Type/ Size	:	20mm and down size Coarse Aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Observation
Date of test	:	09-09-16

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970
1	40 mm	0	0	0	100	100
2	20 mm	159	159	3.18	96.8	95-100
3	10 mm	3376	3535	70.7	29.3	25-55
4	4.75 mm	1241	4776	95.52	4.5	0-5
5	Pan	224	5000	100	0.0	_

AE Ward No 6

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2016-09-08-01** **Date: 15-09-16**

Sample ID No : **2016-09-08-01/02(a)**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970
1	Flakiness Index(%)	11.6	_
2	Elongation Index(%)	13.5	_
3	Specific Gravity	2.65	_
4	Bulk Density(Loose) (Kg/l)	1.52	_
5	Bulk Density(Compacted) (Kg/l)	1.58	_
6	Water Absorption(%)	0.19	_
7	Ten percent fine value	195.5	_
8	Aggregate crushing Value(%)	23.5	Shall not exceed 45% by weight for aggregates used for concrete other than for wearing surface and 30% by weight for concrete for wearing surfaces such as runways, roads, pavements
9	Aggregate Impact Value(%)	21.9	Shall not exceed 45% by weight for aggregates used for concrete other than for wearing surface and 30% by weight for concrete for wearing surfaces such as runways, roads, pavements

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Prepared by
Harshitha

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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R KARTHIK RECHAN
Authorized Signature
Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2016-09-08-01** **Date: 15-09-16**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division , BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division , BBMP , Bangalore.
Agency	:	M/s Sathya constructions, (Prop.Sathish) # 600, Down Bazzar road, Yelahanka, Bangalore-64.
Project Name	:	Improvements & Asphalting to Roads and Drains from Nagawara Junction to Thanisandra at Ward No.06, Byatarayanapura Sub Division.
Customer's Reference	:	BBMP/EE/BTP/WO/123/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-09-16
Sample ID No	:	2016-09-08-01/03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	09-09-16
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	**Requirement as per IS 383:1970**			
						Grading Zone I	**Grading Zone II**	**Grading Zone III**	**Grading Zone IV**
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	69	69	6.9	93.1	90-100	90-100	90-100	95-100
3	2.36 mm	88	157	15.7	84.3	60-95	75-100	85-100	95-100
4	1.18 mm	82	239	23.9	76.1	30-70	55-90	75-100	90-100
5	600 micron	325	564	56.4	43.6	15-34	35-59	60-79	80-100
6	300 micron	193	757	75.7	24.3	5-20	8-30	12-40	15-50
7	150 micron	212	969	96.9	3.1	0-10	0-10	0-10	0-15
8	Pan	31	1000	100	0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone II									

AE ward no 6
ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2016-09-08-01** **Date:** 15-09-16

Sample ID No : 2016-09-08-01/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970 (RA2016)
1	Water Absorption(%)	2.51	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.2	Not more than 15 percent

Note:
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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

Prepared by
Harshitha

CIVIL PRO BANGALORE Sig..... Date.....

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2016-09-08-01** **Date: 15-09-16**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division , BBMP , Bangalore.
Address	:	Byatarayanapura Sub Division , BBMP , Bangalore.
Project Name	:	M/s Sathya constructions, (Prop.Sathish) # 600, Down Bazzar road, Yelahanka, Bangalore-64.
Agency	:	Improvements & Asphalting to Roads and Drains from Nagawara Junction to Thanisandra at Ward No.06, Byatarayanapura Sub Division.
Customer's Reference	:	BBMP/EE/BTP/WO/123/2016-17
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	08-09-16
Sample ID No	:	2016-09-08-01/02(b)
Sample Type	:	40mm and down size Coarse Aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	09-09-16

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970
1	80 mm	0	0	0	100	100
2	40 mm	145	145	2.9	97.1	95-100
3	20 mm	2986	3131	62.62	37.38	30-70
4	10 mm	1085	4216	84.32	15.68	10-35
5	4.75 mm	754	4970	99.4	0.6	0-5
6	Pan	30	5000	100	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID: : **CP-2016-09-08-01** **Date: 15-09-16**

Sample ID No : 2016-09-08-01/02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970
1	Flakiness Index(%)	**10.1**	_
2	Elongation Index(%)	**8.6**	_
3	Specific Gravity	**2.61**	_
4	Bulk Density(Loose) (Kg/l)	**1.48**	_
5	Bulk Density(Compacted) (Kg/l)	**1.55**	_
6	Water Absorption(%)	**0.21**	_

Note:
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Prepared by
Harshitha

AE ward No 6
ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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Authorized Signatory
Quality Manager

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****End of Report****

TEST RESULTS OF STEEL

Lab ID	:	**CP-2016-09-08-01** **Date: 14-09-16**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division , BBMP , Bangalore.
Address	:	Byatarayanapura Sub Division , BBMP , Bangalore.
Agency	:	M/s Sathya constructions, (Prop.Sathish) # 600, Down Bazzar road, Yelahanka, Bangalore-64.
Project Name	:	Improvements & Asphalting to Roads and Drains from Nagawara Junction to Thanisandra at Ward No.06, Byatarayanapura Sub Division.
Customer Reference	:	BBMP/EE/BTP/WO/123/2016-17
Sourse of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-09-16
Sample ID No	:	2016-09-08-01/04
Sample Type	:	JSW, Fe500
Reference to BIS codes	:	IS 1786-2008
Date of test:	:	10-09-16

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	JSW	Fe500	8mm	0.389	550	671	21.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	JSW	Fe500	8mm	Satisfactory	Satisfactory

Note

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2016-09-08-01**	**Date: 14-09-16**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division , BBMP , Bangalore.	
Address	:	Byatarayanapura Sub Division , BBMP , Bangalore.	
Agency	:	M/s Sathya constructions, (Prop.Sathish) # 600, Down Bazzar road, Yelahanka, Bangalore-64.	
Project Name	:	Improvements & Asphalting to Roads and Drains from Nagawara Junction to Thanisandra at Ward No.06, Byatarayanapura Sub Division.	
Customer Reference	:	BBMP/EE/BTP/WO/123/2016-17	
Sourse of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	08-09-16	
Sample ID No	:	2016-09-08-01/05	
Sample Type	:	JSW, Fe500	
Reference to BIS codes	:	IS 1786-2008	
Date of test:	:	10-09-16	

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	JSW	Fe500	10mm	0.612	564	680	20.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	JSW	Fe500	10mm	Satisfactory	Satisfactory

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Prepared By:
Harshitha

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2016-09-08-01** **Date: 14-09-16**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division , BBMP , Bangalore.
Address	:	Byatarayanapura Sub Division , BBMP , Bangalore.
Agency	:	M/s Sathya constructions, (Prop.Sathish) # 600, Down Bazzar road, Yelahanka, Bangalore-64.
Project Name	:	Improvements & Asphalting to Roads and Drains from Nagawara Junction to Thanisandra at Ward No.06, Byatarayanapura Sub Division.
Customer Reference	:	BBMP/EE/BTP/WO/123/2016-17
Sourse of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-09-16
Sample ID No	:	2016-09-08-01/06
Sample Type	:	JSW, Fe500
Reference to BIS codes	:	IS 1786-2008
Date of test:	:	10-09-16

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	JSW	Fe500	12mm	0.882	576	691	20.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	JSW	Fe500	12mm	Satisfactory	Satisfactory

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ಸಹಾಯಕ ಅಭಿಯಂತರರು ಬ.ಬ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-24
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